## **RS-288** SUPPLEMENTAL RESTRAINT SYSTEM – OCCUPANT CLASSIFICATION SYSTEM

B1783
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# Rear Occupant Classification Sensor RH Circuit Malfunction

#### DESCRIPTION

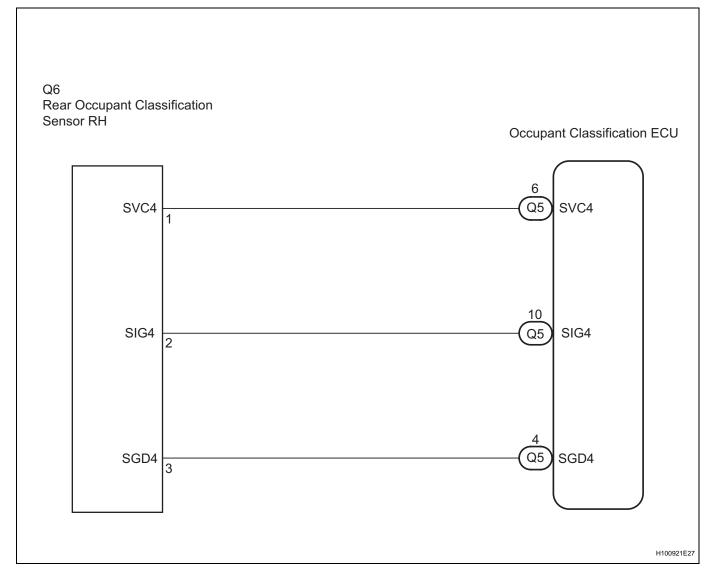
The rear occupant classification sensor RH circuit consists of the occupant classification ECU and the rear occupant classification sensor RH.

DTC B1783 is recorded when a malfunction is detected in the rear occupant classification sensor RH circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1783	<ul> <li>Occupant classification ECU detects line short circuit signal, open circuit signal, short circuit to ground signal or short circuit to B+ signal in the rear occupant classification sensor RH circuit for 2 seconds</li> <li>Rear occupant classification sensor RH malfunction</li> <li>Occupant classification ECU malfunction</li> </ul>	<ul> <li>No. 1 seat wire RH</li> <li>Front seat assembly RH (Rear occupant classification sensor RH)</li> <li>Occupant classification ECU</li> </ul>

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# WIRING DIAGRAM



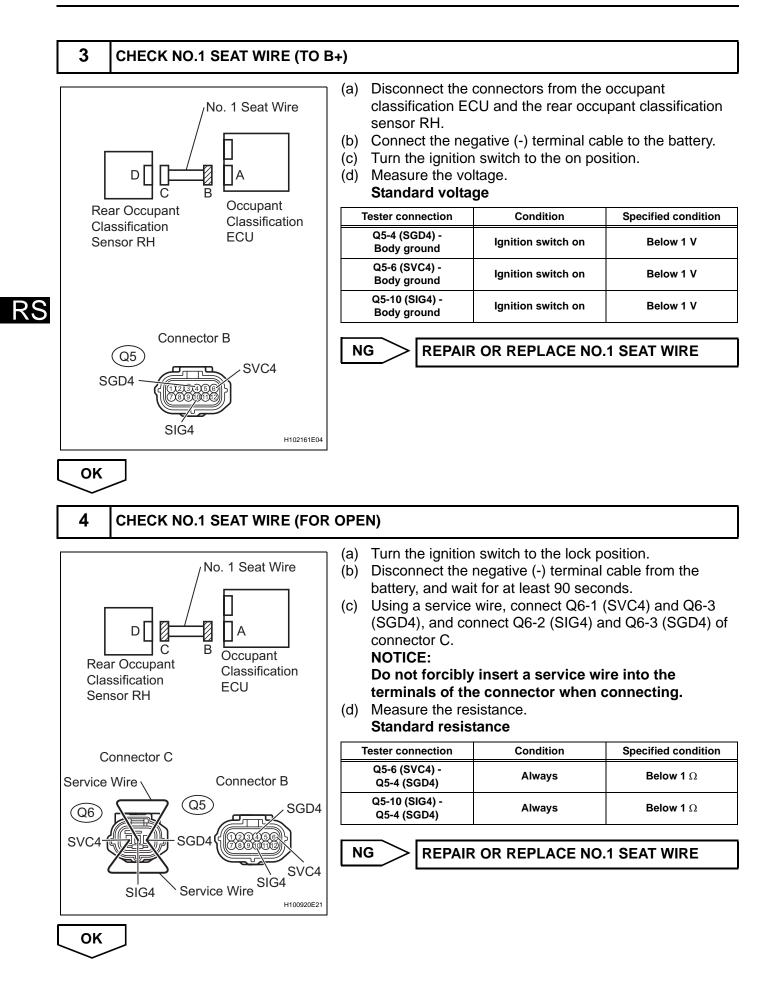
### **INSPECTION PROCEDURE**

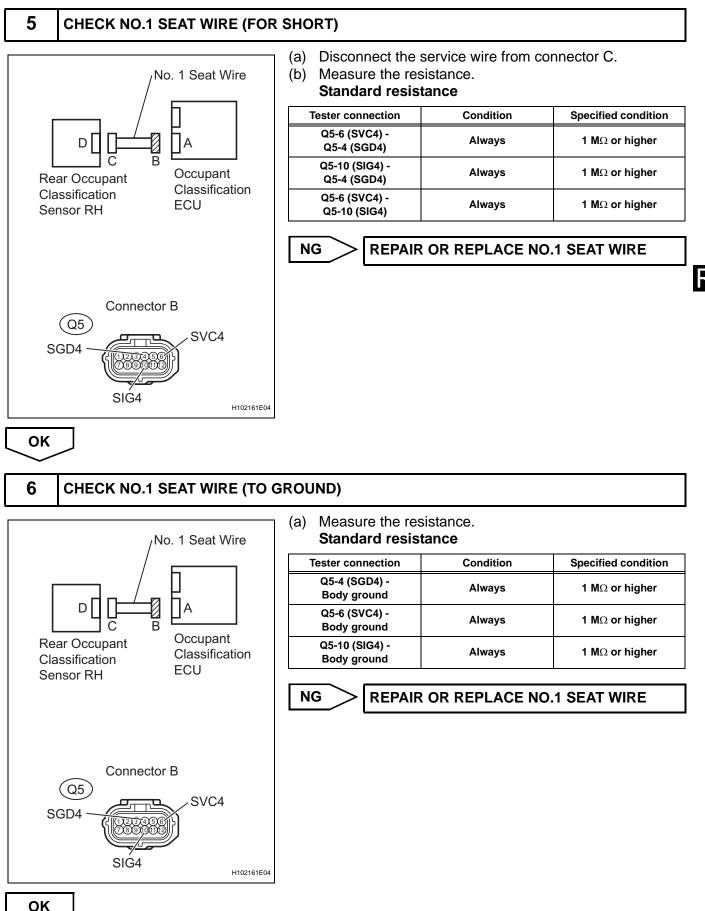
HINT:

- If troubleshooting (wire harness inspection) is difficult to perform, remove the front passenger seat installation bolts to see the under surface of the seat cushion.
- In the above case, hold the seat so that it does not tip over. Holding the seat for a long period of time may cause a problem, such as seat rail deformation. Hold the seat up only for as long as necessary.

1	СНЕСК DTC					
		<ul> <li>(a) Turn the ignition switch to the on position.</li> <li>(b) Clear the DTCs stored in the memory (See page RS-254).</li> <li>HINT:</li> </ul>				
		<ul> <li>First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor assembly.</li> <li>(c) Turn the ignition switch to the lock position.</li> <li>(d) Turn the ignition switch to the on position.</li> <li>(e) Check the DTCs (See page RS-254).</li> <li>OK:</li> </ul>				
		DTC B1783 is not output.				
		HINT: Codes other than DTC B1783 may be output at this time, but they are not related to this check.				
		OK USE SIMULATION METHOD TO CHECK				
NG	$\supset$					
2	CHECK CONNECTION OF CONN	ECTORS				
		<ul> <li>(a) Turn the ignition switch to the lock position.</li> <li>(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.</li> <li>(c) Check that the connectors are properly connected to the occupant classification ECU and the rear occupant classification sensor RH.</li> <li>OK: The connectors are properly connected.</li> </ul>				
	NG CONNECT CONNECTORS					

#### **RS-290** SUPPLEMENTAL RESTRAINT SYSTEM - OCCUPANT CLASSIFICATION SYSTEM





OK

	7	CHECK DTC				
RS			(b) (c) (d) (e) (f)	ECU ar Connec Turn the Clear th 254). HINT: First cle ECU ar Turn the Check to OK: DTC I HINT:	nd the re to the ne e ignition ne DTCs ear DTC nd then i e ignition e ignition the DTC B1783 is	onnectors to the occupant classification ear occupant classification sensor RH. egative (-) terminal cable to the battery. on switch to the on position. is stored in the memory (See page RS- Cs stored in the occupant classification in the center airbag sensor assembly. on switch to the lock position. on switch to the lock position. Cs (See page RS-254). <b>is not output.</b>
					y are not	han DTC B1783 may be output at this time, ot related to this check.
			Oł	$\leq$	USE SI	SIMULATION METHOD TO CHECK
	NG					
	8	REPLACE OCCUPANT CLASSIFI			CU	
	NEXT		(b)	Disconi battery, Replace 412). HINT:	nect the and wa e the occ n the ins	on switch to the lock position. e negative (-) terminal cable from the ait for at least 90 seconds. ccupant classification ECU (See page RS- spection using parts from a normal vehicle
	9	PERFORM ZERO POINT CALIBR	ATIC	N		
			(b) (c)	Connect Turn the Using the calibrat <b>OK:</b>	ct the inte e ignitior he intelli ion (See	egative (-) terminal cable to the battery. Intelligent tester to the DLC3. In switch to the on position. Iligent tester, perform the zero point are page RS-246). D is displayed.
			NG	$\sim$		Go to step 12

ОК

10	PERFORM SENSITIVITY CHECK	
	(a)	<ul> <li>Using the intelligent tester, perform the sensitivity check (See page RS-246).</li> <li>(1) Confirm that nothing is placed on the passenger seat.</li> <li>(2) Confirm that the beginning sensor reading is within the standard range.</li> <li>Standard range:         <ul> <li>-3.2 to 3.2 kg (-7 to 7 lb)</li> <li>(3) Place a 30 kg (66.14 lb) weight (e.g. a lead mass) onto the front passenger seat.</li> <li>(4) Confirm that the sensitivity is within the standard range.</li> <li>Standard range:                 <ul> <li>27 to 33 kg (59.52 to 72.75 lb)</li> <li>HINT:</li> <li>When performing the sensitivity check, use a solid metal weight (the check result may not be accurate if a liquid weight is used).</li> </ul> </li> </ul> </li> </ul>
ОК		
11	CHECK DTC	
	(a) (b) (c) (d) (e) (f)	<ul> <li>Turn the ignition switch to the on position.</li> <li>Clear the DTCs stored in the memory (See page RS-254).</li> <li>HINT:</li> <li>First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor assembly.</li> <li>Turn the ignition switch to the lock position.</li> <li>Turn the ignition switch to the on position.</li> <li>Check the DTCs (See page RS-254).</li> <li>OK:</li> <li>DTC B1783 is not output.</li> <li>HINT:</li> <li>Codes other than DTC B1783 may be output at this time, but they are not related to this check.</li> </ul>
NG		
12	REPLACE FRONT SEAT ASSEMBL	YRH
	(a)	Turn the ignition switch to the lock position.

- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Replace the front seat assembly RH (See page SE-5).

13	PERFORM ZERO POINT CALIBRATION			
	<ul> <li>(a) Connect the negative (-) terminal cable to the battery.</li> <li>(b) Connect the intelligent tester to the DLC3.</li> <li>(c) Turn the ignition switch to the on position.</li> <li>(d) Using the intelligent tester, perform the zero point calibration (See page RS-246).</li> <li>OK:</li> <li>COMPLETED is displayed.</li> </ul>			
	Ţ			
14	PERFORM SENSITIVITY CHECK			
NEX	<ul> <li>(a) Using the intelligent tester, perform the sensitivity check (See page RS-246).</li> <li>(1) Confirm that nothing is placed on the passenger seat.</li> <li>(2) Confirm that the beginning sensor reading is with the standard range.</li> <li>Standard range:     <ul> <li>-3.2 to 3.2 kg (-7 to 7 lb)</li> </ul> </li> <li>(3) Place a 30 kg (66.14 lb) weight (e.g. a lead mass onto the front passenger seat.</li> <li>(4) Confirm that the sensitivity is within the standard range.</li> <li>Standard range:     <ul> <li>27 to 33 kg (59.52 to 72.75 lb)</li> <li>HINT:</li> <li>When performing the sensitivity check, use a sol metal weight (the check result may not be accurated if a liquid weight is used).</li> </ul> </li> </ul>			

END